No. of Printed Pages : 3

B.Sc. IN MEDICAL LABORATORY TECHNOLOGY (BSCMLT)

Term-End Examination

June, 2014

BAHI-005 : CLINICAL BIOCHEMISTRY

Time : 3 Hours

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Maximum Marks : 70

PART - A

Com	plete the following : 2x10=2
(a)	is a reducing monosaccharide.
(b)	Serum should be separated from red cells as soon as possible to prevent leakage
(c)	The first step in the catabolism of triacylglycerol is
(d)	The most abundant of the bile acid is
(e)	Both DNA and RNA are polymeres of
(f)	increases the renal clearance of phosphate and decreases the concentration of plasma phosphate.
(g)	The normal values for calcium concentration in serum or plasma is
(h)	The enzyme requires for ketone body formation is located in the

BAHI-005

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- (i) An elevation of blood urea usually signifies decreased glomular filtration function is referred to as _______.
- (j) The end product of glucose oxidation by glycolysis is ______.

PART - B

Answer **any three** questions each carries **10** marks.

- **2.** (a) Describe carbohydrate metabolism in the **4** body.
 - (b) What is the confirmatory test for the 4 diagnosis of diabeties mellitus ?
 - (c) Give sample values of this test in the 2 following :
 - (i) Normal person.
 - (ii) Diabeties mellitus.

3.	(a)	Define lipids.	2
	(b)	Describe lipid metabolism.	6
	(c)	Sample value for serum cholesterol in the following condition :(i) Nephrotic syndrome.(ii) Hyperthyrodism.	2
4.	(a) (b)	Structure and functions of nucleic acid. Write the principle and procedure for the estimation of uric acid.	5 5
5.	(a)	List four non - functional enzymes found in the blood.	2
	(b)	What are the factors influencing enzyme activity.	6
	(c)	Functions of co - enzyme.	2

BAHI-005

- 6. (a) Describe the principle of Flame photometry. **4**
 - (b) List 4 electrolytes that can be measured by **2** this instrument
 - (c) Describe the procedure of any one of the 4 test.

PART - C

- 7. Write short notes on any four of the following : (each carries 5 marks) 5x4=20
 - (a) Lipo proteins.
 - (b) TCA cycle / Kreb's cycle)
 - (c) Importance of phosphorus.
 - (d) Creatinine clearance test.
 - (e) Serum alkaline phosphatase.

BAHI-005